

RU - P4

SEPARATING; MIXING - p.8

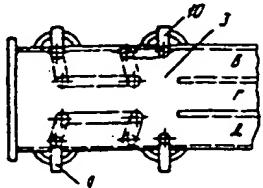
Week 9516

means of hinged lever mechanisms.

USE - In chemical, power generating and building materials manufacturing industries.

ADVANTAGE - The separator is simpler and works more reliably than known equipment. (4pp Dwg.No.3/4)

N95-096079



★ DYAT/ P43

95-121643/16

★ RU 2018381-C1

Circulating classifier for hard powder material - incorporates fan wheel which provides air for feeding powder and carrying it into classifying duct

DYATLOV V A 91.03.05 91SU-4924591.

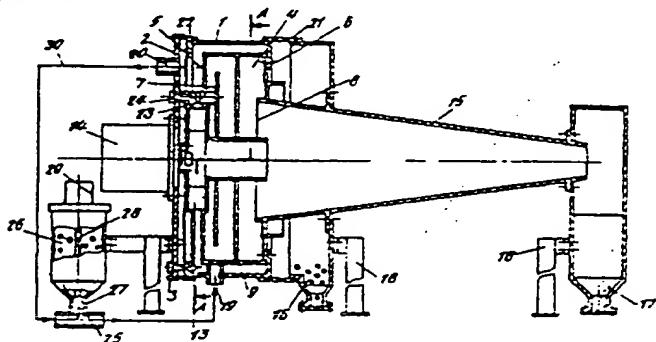
(94.05.30) B07B 7/083

The classifier comprises the circular chamber (1) with fan wheel (2) and curved blades (3), which induces a flow of air. Part of the air picks up the powdered material from the feeder (4), the remainder carries the powder in a swirling air stream through the conical outlet duct (5) of the classifying body.

The fan wheel creates a small positive pressure in the chamber (1) and a small negative pressure in the chamber (4), which is connected by the annular sleeve (6) to the duct (5). The feeder (4) is fed with air from the nipple (7) on the chamber (1) by the pipe (8). The air and powder are returned to the chamber (4) of the classifier, by the nipple (9). Most of the circulating air enters the chamber (4) tangentially, through the annular gap between the cover (10) and the ring (11), throwing heavy particles of the powder on to the wall of the duct (5). Heavy particles are collected in the receiver (12) and fine particles, in the receiver (13).

USE/ADVANTAGE - May be used in granulometric analysis. Wide range of operating conditions, with improved accuracy of sepn. Bul. 16/30.8.94 (3pp Dwg.No.1/3)

N95-096080



★ VOTE P43

95-121649/16

★ RU 2018382-C1

Centrifugal separator for sepn of friable material - incorporates rotor with inclined screening surfaces over which material is distributed by rotation of rotor

VORON TECHN INST 91.06.26 91SU-4950252

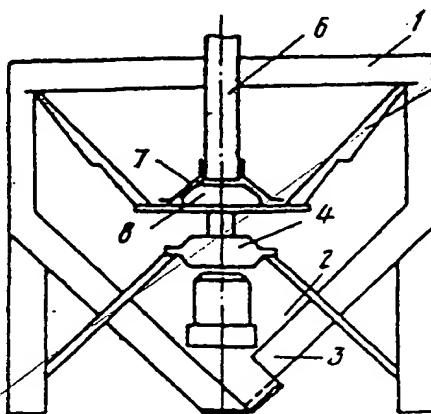
(94.05.30) B07B 13/07

The separator comprises the rotor (1), with in inclined screen surfaces, which is driven by the motor (2), and the loading pipe (3), which delivers the raw material on to the bottom of the rotor. The hollow cylindrical element (4) is mounted on the pipe (3) and is free to rotate or rise on the pipe.

With the rotation of the rotor, centrifugal force, friction and Coriolis inertia force creates a pressure on the material below the element (4). This leads to the formation of a compact layer of the material on the screening surface of the rotor. Material passing through the screening surface is discharged into the receiver (5), whilst the coarse particles or tailings collect in the receiver (6).

USE/ADVANTAGE - For sepn. agricultural materials according to size. Improved efficiency of sepn. and reduced loss of the fine material with the tailings. Bul. 16/30.8.94 (3pp Dwg.No.1/1)

N95-096081



★ KHAG = P43

95-121650/16

★ RU 2018383-C1

Vibrating separator for friable materials, esp. seed mixtures - comprises inclined friction surface with debalanced vibrator and ultrasonic vibrator above working surface

KHARK AGRIC MECHN ELECTRIF INST 91.04.30

91SU-4932856

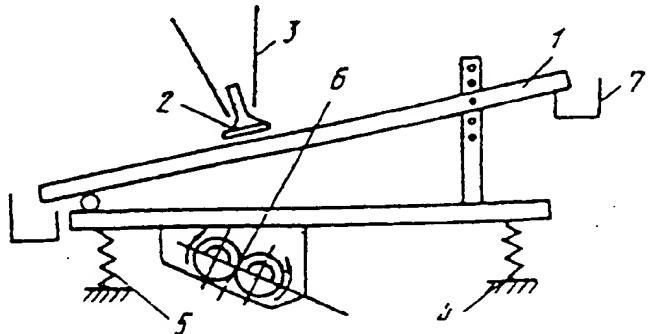
(94.05.30) B07B 13/11

The vibrating separator comprises the friction working surface (1), inclined in two mutually perpendicular planes, mounted on a base which is supported by the springs (5). The ultrasonic vibrator (2) above the working surface and the debalanced vibrator (3) is mounted on the base. Collecting hoppers are provided along the edges of the working surface.

The ultrasonic vibrator is mounted with the upper end in the feeder (3) and the lower end with a specified gap above the working surface.

USE/ADVANTAGE - For dividing friable material into fractions. Improved quality of separation. Bul. 16/30.8.94 (3pp Dwg.No.1/2)

N95-096082



★ SIRI = P43

95-121651/16

★ RU 2018384-C1

Jet cleaning machine - incorporates washing chamber with telescopic hood and movable nozzles for spraying washing solution

SIRIUS SHIP MECH ENG TECHN RES INST 91.01.22

91SU-4904260

(94.05.30) B08B 3/02

The machine comprises a washing chamber, formed by two telescopic rectangular hoods (8,9), between the end walls (2,3). The hoods can be moved to either end wall, to give access for loading and unloading the articles at opposite ends of the machine. The articles are loaded on the carriage (12), for passing through a spray of the washing solution from the nozzles (17). After washing, the articles are dried by blowing with hot air.

The machine incorporates the reversible drives (10,11) for moving the hoods (8,9), and the drive (13) for moving the carriage (12). The nozzles (17) are mounted on the guide rods (18) and are fed with the washing solution by the flexible high-pressure header (16). The nozzles are moved along the guide rods by the reversible drive (21) and hollow flexible connector (19). Washing solution is circulated by the pump (25).

USE/ADVANTAGE - For washing articles after mechanical treatment, or prior to coating application. Reduced size of the